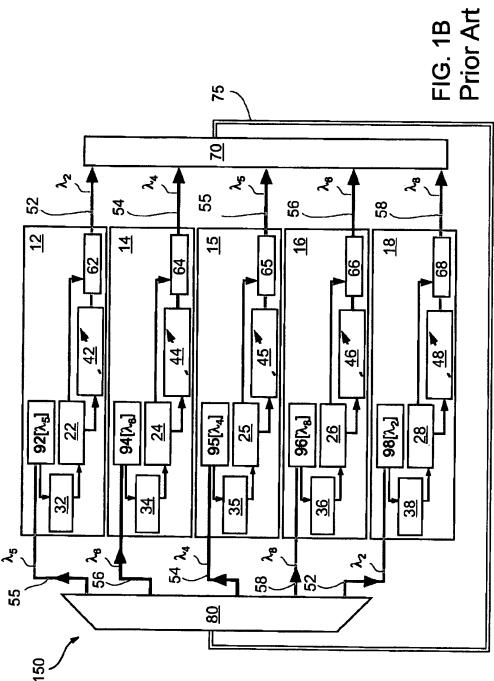


FIG. 1A Prior Art

10 Processing Element	59 Received Data
20 Transmitter	60 Modulator
30 Processing Unit	90 Wavelength Addressed Receiver
40 Tunable Laser	E Electronic Data to be Transmitted
50 Data Packet	λ Wavelength Designation





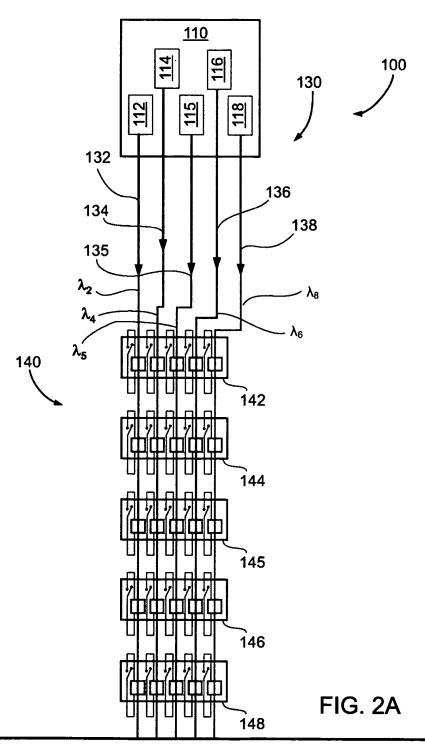
70 Optical Coupler 18 Processing Elements (PE) 12, 14, 15, 16, 18 Processing Eleme 22, 24, 25, 26, 28 Transmitters 32, 34, 35, 36, 38 Processing Units

42, 44, 45, 46, 48 Tunable Lasers 52, 54, 55, 56, 58 Data Packets 62, 64, 65, 66, 68 Modulators

68 Modulators

75 Optical Fiber 80 Optical Wavelength Demultiplexer 92, 94, 95, 96, 98 Wavelength Addressed Receiver

λ Wavelength Designation 150 Data Network



100 Laser Power Grid 110 Laser Power Supply 112, 114, 115, 116, 118 Laser Sources 130 Laser Distribution Grid

140 Optical Switching Network132, 134, 135, 136, 138 Optical Fibers142, 144, 145, 146, 148 Optical Switch Arraysλ Wavelength Designation

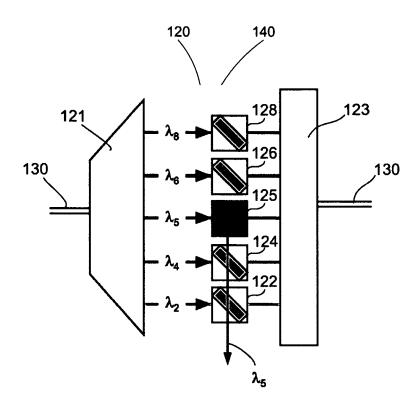
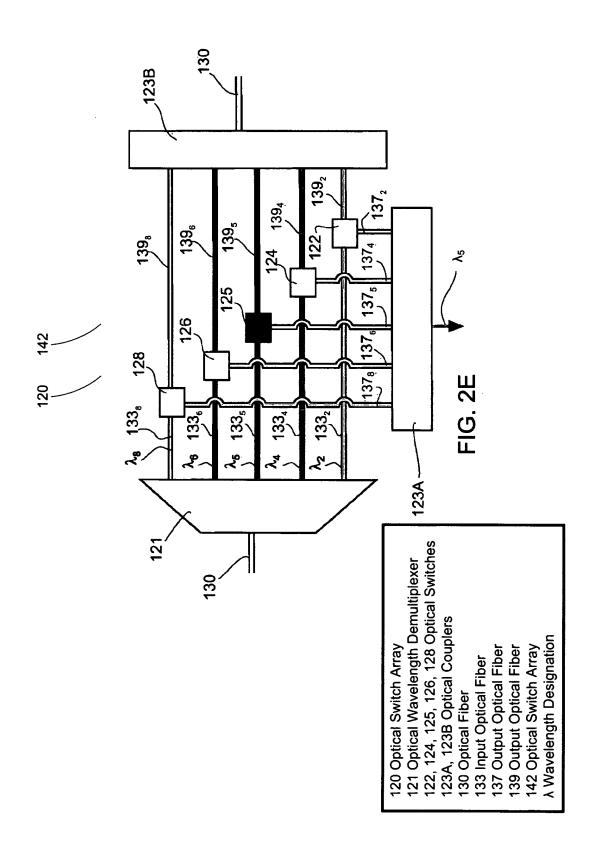
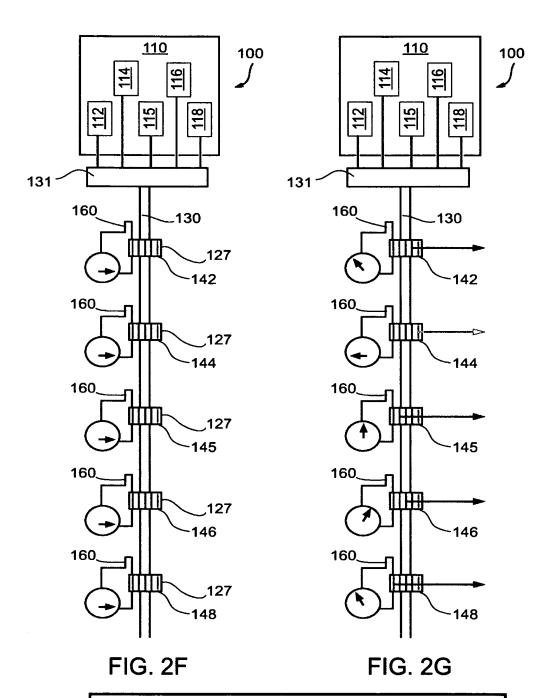


FIG. 2D

- 120 Optical Switch Array
- 121 Optical Wavelength Demultiplexer 122, 124, 125, 126, 128 Optical Switches
- 123 Coupler
- 130 Optical Fiber
- 142 Optical Switch Array
- λ Wavelength Designation





- 110 Laser Power Supply Station
- 112, 114, 115, 116, 118 Continuous Work (CW) Laser Sources
- 127 Electrohalographic Switch
- 130 Optical Fiber
- 131 Optical Coupler
- 142, 144, 145, 146, 148 Optical Switches
- 160 Variable Electric Source
- λ Wavelength Designation

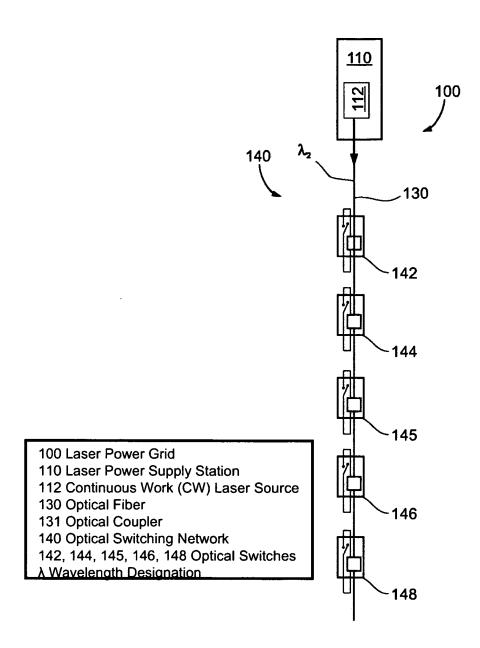


FIG. 2H

